

37. A kit for performing the method of claim 35 comprising a mutant nucleic acid polymerase which has reduced discrimination between canonical and non-canonical nucleoside triphosphates and data or instructions describing conditions under which the method of claim 35 may be performed.

38. The method of claim 1 wherein the nucleic acid synthesis is part of or coupled to a method for nucleic acid amplification.

39. A kit for performing the method of claim 38 comprising a mutant nucleic acid polymerase which has reduced discrimination between canonical and non-canonical nucleoside triphosphates and data or instructions describing conditions under which the method of claim 38 may be performed.

40. A kit for performing a partial ribo-substitution reaction comprising a mutant nucleic acid polymerase which has reduced discrimination between canonical and non-canonical nucleoside triphosphates and data or information describing conditions under which the method may be performed.